



LKT Laboratories, Inc.

Pefloxacin Methanesulfonate Dihydrate

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Product Information

Product ID P1622

CAS No. 149676-40-4

Chemical Name 1-ethyl-6-fluoro-1,4-dihydro-7-(4-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid monomethanesulfonate

Synonym Pefloxacin mesylate, Peflacin, Peflox

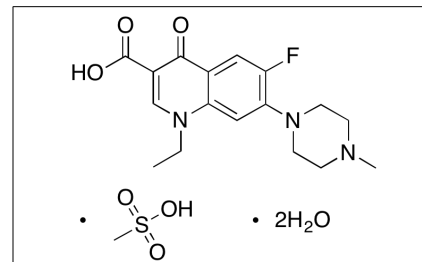
Formula $C_{17}H_{20}FN_3O_3 \cdot CH_3SO_3H$

Formula Wt. 465.50

Melting Point

Purity $\geq 98\%$

Solubility



Bulk quantities available upon request

Product ID	Size
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P1622	5 g
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P1622	25 g
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P1622	100 g
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Store Temp Ambient

Ship Temp Ambient

Description Pefloxacin is a synthetic third generation fluoroquinolone antibiotic. Pefloxacin displays antibacterial activity; it inhibits DNA gyrase and topoisomerase IV, suppressing DNA replication and transcription. Additionally, pefloxacin inhibits synthesis of penicillin-binding proteins, preventing bacterial cell wall formation. Pefloxacin exhibits moderate UV-induced phototoxicity.

References Martinez LJ, Sik RH, Chignell CF. Fluoroquinolone antimicrobials: singlet oxygen, superoxide and phototoxicity. Photochem Photobiol. 1998 Apr;67(4):399-403. PMID: 9559584.

Grossato A, Fontana R. Synergy and mechanism of interaction between pefloxacin and penicillin G against enterococci. New Microbiol. 1997 Jul;20(3):221-5. PMID: 9258941.

Moreau NJ, Houot S, Joly-Guillou ML, et al. Characterisation of DNA gyrase and measurement of drug accumulation in clinical isolates of Acinetobacter baumannii resistant to fluoroquinolones. J Antimicrob Chemother. 1996 Dec;38(6):1079-83. PMID: 9023657.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.